

PATENT ABSTRACTS OF JAPAN

(11) Publication number : 07-081803

(43) Date of publication of application : 07.03.1995

(51) Int.Cl.

C01B 31/02
DDTF 9/12

(21) Application number : 05-211662

(71) Applicant : NEC CORP

(22) Date of filing : 26.08.1993

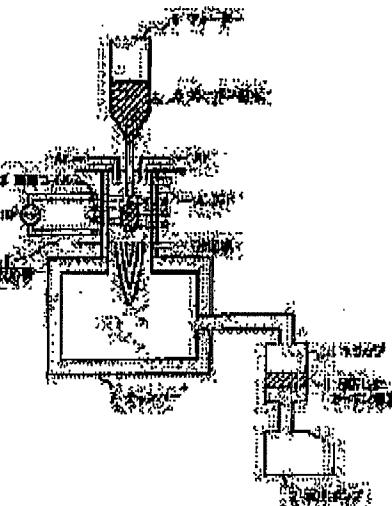
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(54) PRODUCTION OF FULLERENE AND CARBON NANOTUBE

(57) Abstract

PURPOSE: To synthesize fullerene and carbon nanotubes with good mass productivity.

CONSTITUTION: This method for synthesizing fullerene and carbon nanotubes comprises making Ar gas flow through the interior of a reactional tube 1 made of quartz glass, making a high-frequency electric current flow through an induction coil 3 wound around the periphery thereof under 2100Torr pressure, producing a thermal plasma 4, feeding powder 6 of carbon into the thermal plasma 4, evaporating and recombining the powder. Since the thermal plasma 4 produced by the high-frequency induction has a wide plasma region at a high temperature, a large amount of the carbon powder 6 can instantaneously be evaporated to synthesize large amounts of the fullerene and carbon nanotubes in a short time.



LEGAL STATUS

[Date of request for examination] 16.03.1994

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 2548511

[Date of registration] 08.08.1996

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right] 08.08.2001